

=> file caplus  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 13:24:57 ON 17 AUG 2002  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 17 Aug 2002 VOL 137 ISS 8  
FILE LAST UPDATED: 16 Aug 2002 (20020816/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s stretchable(l)composite (l) (sheet or web)

- 1679 STRETCHABLE
- 226892 COMPOSITE
- 137137 COMPOSITES
- 258666 COMPOSITE
- (COMPOSITE OR COMPOSITES)
- 222511 SHEET
- 139918 SHEETS
- 292121 SHEET
- (SHEET OR SHEETS)
- 20076 WEB
- 5627 WEBS
- 22558 WEB
- (WEB OR WEBS)

L1 33 STRETCHABLE(L)COMPOSITE (L) (SHEET OR WEB)

=> s fibrous assembly

- 45061 FIBROUS
- 98449 ASSEMBLY
- 24646 ASSEMBLIES
- 114076 ASSEMBLY
- (ASSEMBLY OR ASSEMBLIES)

L2 70 FIBROUS ASSEMBLY  
(FIBROUS(W)ASSEMBLY)

=> s fibrous (l) assembly (l)sheet

- 45061 FIBROUS
- 98449 ASSEMBLY
- 24646 ASSEMBLIES
- 114076 ASSEMBLY
- (ASSEMBLY OR ASSEMBLIES)
- 222511 SHEET

```

139918 SHEETS
292121 SHEET
      (SHEET OR SHEETS)
L3      103 FIBROUS (L) ASSEMBLY (L) SHEET

=> s (fibers or fibres) (l) ethylene propylene copolymer
      442481 FIBERS
      1374 FIBRES
      397958 ETHYLENE
      3154 ETHYLENES
      399627 ETHYLENE
            (ETHYLENE OR ETHYLENES)
      144349 PROPYLENE
      287 PROPYLENES
      144439 PROPYLENE
            (PROPYLENE OR PROPYLENES)
      473081 COPOLYMER
      160320 COPOLYMERS
      515325 COPOLYMER
            (COPOLYMER OR COPOLYMERS)
      15175 ETHYLENE PROPYLENE COPOLYMER
            (ETHYLENE(W) PROPYLENE(W) COPOLYMER)
L4      558 (FIBERS OR FIBRES) (L) ETHYLENE PROPYLENE COPOLYMER

=> s ethylene propylene butene
      397958 ETHYLENE
      3154 ETHYLENES
      399627 ETHYLENE
            (ETHYLENE OR ETHYLENES)
      144349 PROPYLENE
      287 PROPYLENES
      144439 PROPYLENE
            (PROPYLENE OR PROPYLENES)
      46412 BUTENE
      5494 BUTENES
      48201 BUTENE
            (BUTENE OR BUTENES)
L5      141 ETHYLENE PROPYLENE BUTENE
            (ETHYLENE(W) PROPYLENE(W) BUTENE)

=> d his

      (FILE 'HOME' ENTERED AT 13:24:20 ON 17 AUG 2002)

      FILE 'CAPLUS' ENTERED AT 13:24:57 ON 17 AUG 2002
L1      33 S STRETCHABLE(L) COMPOSITE (L) (SHEET OR WEB)
L2      70 S FIBROUS ASSEMBLY
L3      103 S FIBROUS (L) ASSEMBLY (L) SHEET
L4      558 S (FIBERS OR FIBRES) (L) ETHYLENE PROPYLENE COPOLYMER
L5      141 S ETHYLENE PROPYLENE BUTENE

=> s sheet (l) inelastic (l) binding (l) spots
      222511 SHEET
      139918 SHEETS
      292121 SHEET
            (SHEET OR SHEETS)
      55735 INELASTIC
      13 INELASTICS
      55735 INELASTIC
            (INELASTIC OR INELASTICS)
      727076 BINDING
      1639 BINDINGS
      727528 BINDING
            (BINDING OR BINDINGS)

```

40891 SPOTS  
L6 0 SHEET (L) INELASTIC (L) BINDING (L) SPOTS

=> s inelastic sheet  
55735 INELASTIC  
13 INELASTICS  
55735 INELASTIC  
(INELASTIC OR INELASTICS)  
222511 SHEET  
139918 SHEETS  
292121 SHEET  
(SHEET OR SHEETS)  
L7 1 INELASTIC SHEET  
(INELASTIC(W) SHEET)

=> s inelastic (l) sheet  
55735 INELASTIC  
13 INELASTICS  
55735 INELASTIC  
(INELASTIC OR INELASTICS)  
222511 SHEET  
139918 SHEETS  
292121 SHEET  
(SHEET OR SHEETS)  
L8 152 INELASTIC (L) SHEET

=> d his

(FILE 'HOME' ENTERED AT 13:24:20 ON 17 AUG 2002)

FILE 'CAPLUS' ENTERED AT 13:24:57 ON 17 AUG 2002

L1 33 S STRETCHABLE(L) COMPOSITE (L) (SHEET OR WEB)  
L2 70 S FIBROUS ASSEMBLY  
L3 103 S FIBROUS (L) ASSEMBLY (L) SHEET  
L4 558 S (FIBERS OR FIBRES) (L) ETHYLENE PROPYLENE COPOLYMER  
L5 141 S ETHYLENE PROPYLENE BUTENE  
L6 0 S SHEET (L) INELASTIC (L) BINDING (L) SPOTS  
L7 1 S INELASTIC SHEET  
L8 152 S INELASTIC (L) SHEET

=> s l1 and l3 and l4  
L9 1 L1 AND L3 AND L4

=> d bib,abs

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

AN 2001:546070 CAPLUS

DN 135:108599

TI Elastically **stretchable composite sheets**  
with high stretchability comprising laminates of a thermoplastic  
**stretchable** elastic **sheet** and a nonwoven **sheet**  
comprising fibers consisting of propylene polymers having inelastic  
stretchability and intermittently joined to one or two surfaces of the  
elastic **sheet**

IN Kobayashi, Toshio; Ohata, Hiroyuki

PA Japan

SO U.S. Pat. Appl. Publ., 9 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001009715	A1	20010726	US 2001-766275	20010119

JP 2001200460	A2	20010727	JP 2000-11994	20000120
BR 2001000345	A	20011009	BR 2001-345	20010119
CN 1307857	A	20010815	CN 2001-112332	20010120
PRAI JP 2000-11994	A	20000121		

AB The **stretchable sheets** comprise laminates of an elastic **sheet** (A) having stretchability essentially in one or two directions orthogonal to each other and showing stretch in one direction .gtoreq.80%, and a **sheet-like fibrous assembly** (B) having an inelastic stretchability in one of the two directions and joined to .gtoreq.1 surface of A **sheet** at bonding sections arranged intermittently in the two directions and comprising component **fibers** each consisting of **ethylene-propylene copolymer** (I) contg. 0.5-10% ethylene units, butene-**ethylene-propylene copolymer** (II) contg. 0.5-10% ethylene units and 0.5-15% butene units, or a mixt. comprising 100-10% two polymers from I and II. The **composite sheets** are prepd. by the steps comprising the steps of (a) continuously feeding together A **web** comprising thermoplastic polymers and B **web** exhibiting breaking extension .gtoreq.150% in one direction and placing A **web** upon B **web**, (b) joining A **web** and B **web** intermittently in one direction and in the direction orthogonal to the first direction and essentially joining the **webs** in one direction, (c) stretching the **webs** at a stretch within the elasticity limit of A **web** and smaller than the breaking extension of B **web**, and (e) keeping the **composite** to cause contraction of the **composite**. The **composite sheets** are useful for disposable diapers, sanitary napkins, and disposable medical gowns.

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	46.94	47.15
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.62	-0.62

FILE 'STNGUIDE' ENTERED AT 13:30:56 ON 17 AUG 2002  
 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
 COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE  
 AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.  
 LAST RELOADED: Aug 9, 2002 (20020809/UP).

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.12	47.27
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.62

STN INTERNATIONAL LOGOFF AT 13:31:52 ON 17 AUG 2002

=> S COMPOSITE OR LAMINATE

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of

commands which can be used in this file.

=> FILE CAPLUS  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.84	0.84

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 13:40:01 ON 14 FEB 2003  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 14 Feb 2003 VOL 138 ISS 8  
FILE LAST UPDATED: 13 Feb 2003 (20030213/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S COMPOSITE OR LAMINATE  
235714 COMPOSITE  
142569 COMPOSITES  
268776 COMPOSITE  
(COMPOSITE OR COMPOSITES)  
75420 LAMINATE  
56531 LAMINATES  
92924 LAMINATE  
(LAMINATE OR LAMINATES)  
L1 346241 COMPOSITE OR LAMINATE

=> S STRETCHABLE OR STRETCH-ABLE  
1745 STRETCHABLE  
24357 STRETCH  
4808 STRETCHES  
28507 STRETCH  
(STRETCH OR STRETCHES)  
176780 ABLE  
26 ABLES  
176806 ABLE  
(ABLE OR ABLES)  
1 STRETCH-ABLE  
(STRETCH(W) ABLE)  
L2 1745 STRETCHABLE OR STRETCH-ABLE

=> S FIBERS OR FIBRES  
457714 FIBERS  
1574 FIBRES  
L3 458105 FIBERS OR FIBRES

=> S ETHYLENE(L) PROPYLENE(L) COPOLYMER  
439891 ETHYLENE  
3213 ETHYLENES  
441451 ETHYLENE

```

                (ETHYLENE OR ETHYLENES)
148997 PROPYLENE
    288 PROPYLENES
149088 PROPYLENE
                (PROPYLENE OR PROPYLENES)
487783 COPOLYMER
166860 COPOLYMERS
532901 COPOLYMER
                (COPOLYMER OR COPOLYMERS)
L4      37086 ETHYLENE(L) PROPYLENE(L) COPOLYMER

=> S ETHYLENE(L) PROPYLENE(L) BUTENE(L) COPOLYMER
    439891 ETHYLENE
    3213 ETHYLENES
    441451 ETHYLENE
                (ETHYLENE OR ETHYLENES)
148997 PROPYLENE
    288 PROPYLENES
149088 PROPYLENE
                (PROPYLENE OR PROPYLENES)
    50902 BUTENE
    5672 BUTENES
    52556 BUTENE
                (BUTENE OR BUTENES)
487783 COPOLYMER
166860 COPOLYMERS
532901 COPOLYMER
                (COPOLYMER OR COPOLYMERS)
L5      2936 ETHYLENE(L) PROPYLENE(L) BUTENE(L) COPOLYMER

=> S ETHYLENE
    439891 ETHYLENE
    3213 ETHYLENES
L6      441451 ETHYLENE
                (ETHYLENE OR ETHYLENES)

=> S PROPYLENE
    148997 PROPYLENE
    288 PROPYLENES
L7      149088 PROPYLENE
                (PROPYLENE OR PROPYLENES)

=> S BUTENE
    50902 BUTENE
    5672 BUTENES
L8      52556 BUTENE
                (BUTENE OR BUTENES)

=> D HIS

        (FILE 'HOME' ENTERED AT 13:37:55 ON 14 FEB 2003)

        FILE 'CAPLUS' ENTERED AT 13:40:01 ON 14 FEB 2003
L1      346241 S COMPOSITE OR LAMINATE
L2      1745 S STRETCHABLE OR STRETCH-ABLE
L3      458105 S FIBERS OR FIBRES
L4      37086 S ETHYLENE(L) PROPYLENE(L) COPOLYMER
L5      2936 S ETHYLENE(L) PROPYLENE(L) BUTENE(L) COPOLYMER
L6      441451 S ETHYLENE
L7      149088 S PROPYLENE
L8      52556 S BUTENE

=> S L4 AND L5
L9      2936 L4 AND L5

```

=> S L1 AND L2 AND L3 AND L9  
L10 3 L1 AND L2 AND L3 AND L9

=> D L10 1-3 BIB,ABS

L10 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 2001:546070 CAPLUS

DN 135:108599

TI Elastically **stretchable composite** sheets with high stretchability comprising **laminates** of a thermoplastic **stretchable** elastic sheet and a nonwoven sheet comprising **fibers** consisting of propylene polymers having inelastic stretchability and intermittently joined to one or two surfaces of the elastic sheet

IN Kobayashi, Toshio; Ohata, Hiroyuki

PA Japan

SO U.S. Pat. Appl. Publ., 9 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 2001009715	A1	20010726	US 2001-766275	20010119
	JP 2001200460	A2	20010727	JP 2000-11994	20000120
	SG 89370	A1	20020618	SG 2001-236	20010117
	TW 471961	B	20020111	TW 2001-90101155	20010118
	BR 2001000345	A	20011009	BR 2001-345	20010119
	CN 1307857	A	20010815	CN 2001-112332	20010120
PRAI	JP 2000-11994	A	20000121		

AB The **stretchable** sheets comprise **laminates** of an elastic sheet (A) having stretchability essentially in one or two directions orthogonal to each other and showing stretch in one direction .gtoreq.80%, and a sheet-like fibrous assembly (B) having an inelastic stretchability in one of the two directions and joined to .gtoreq.1 surface of A sheet at bonding sections arranged intermittently in the two directions and comprising component **fibers** each consisting of **ethylene-propylene copolymer** (I) contg. 0.5-10% **ethylene** units, **butene-ethylene-propylene copolymer** (II) contg. 0.5-10% **ethylene** units and 0.5-15% **butene** units, or a mixt. comprising 100-10% two polymers from I and II. The **composite** sheets are prepd. by the steps comprising the steps of (a) continuously feeding together A web comprising thermoplastic polymers and B web exhibiting breaking extension .gtoreq.150% in one direction and placing A web upon B web, (b) joining A web and B web intermittently in one direction and in the direction orthogonal to the first direction and essentially joining the webs in one direction, (c) stretching the webs at a stretch within the elasticity limit of A web and smaller than the breaking extension of B web, and (e) keeping the **composite** to cause contraction of the **composite**. The **composite** sheets are useful for disposable diapers, sanitary napkins, and disposable medical gowns.

L10 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 1999:380797 CAPLUS

DN 131:20224

TI Laminated products of spun-bonded nonwoven fabrics

IN Motomura, Shigeyuki; Nishino, Kazushige; Nagaoka, Haruki

PA Mitsui Chemicals Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11158766	A2	19990615	JP 1997-324247	19971126
PRAI	JP 1997-324247		19971126		
AB	<p>The products with good stretchability in the transverse direction and strength in the longitudinal direction, comprise (A) .gtoreq.1 spun-bonded nonwoven fabric which had been stretched (1.2-3.0):1 under heat in the longitudinal direction to afford the stretchability in the transverse direction, and (B) .gtoreq.1 <b>stretchable</b> melt-blown nonwoven fabric where at least 1 surface of the products is the A which is obtained from <b>composite fibers</b> of <b>propylene</b> polymers (I) having Mw/Mn 2-4 and <b>ethylene</b> polymers (II) having Mw/Mn 1.5-4 at the I/II wt. ratio of 5-30:95-70. Thus, an A-B-A <b>laminate</b> was prepd. in this manner where the A is a transversely-<b>stretchable</b> spun-bonded nonwoven fabric of core-shell <b>fibers</b> having the core component from an <b>ethylene-propylene copolymer</b> (<b>ethylene</b> content 4.7 mol%, d. 0.90 g/cm3, MFR 50 g/10-min) and the shell component from a 1-<b>butene-ethylene copolymer</b> (1-<b>butene</b> content 4.0 mol%, d. 0.948 g/cm3, MFR 30 g/10-min), and the B is a melt-blown nonwoven fabric of a 40/60 blend of a styrene-<b>ethylene-1-butene</b>-styrene block <b>copolymer</b> and a 1-<b>butene-ethylene copolymer</b> (MFR 69 g/10-min, d. 0.889 g/cm3).</p>				

L10 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 1991:64221 CAPLUS

DN 114:64221

TI **Stretchable** nonwoven fabrics with high strength

IN Takai, Yosuke

PA Daiwa Spinning Co. Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02200859	A2	19900809	JP 1989-14666	19890123
PRAI	JP 1989-14666		19890123		
AB	<p>The title fabrics contain .gtoreq.85% fiber blends composed of 5-40% latently crimping thermally fusible <b>fibers</b> from mixt. of resins with m.p. 100-150.degree. and resins with m.p. 150-300.degree. which crimp at m.p. of the lower-m.p. resins, and 60-95% latently crimping <b>fibers</b> which crimp at processing temp. of 120-180.degree.. Thus, 20% <b>composite fibers</b> A composed of high-d. polyethylene shell and poly(butylene terephthalate) core which generates 85/25 mm crimps by heating at 125.degree. was blended with 80% <b>composite fibers</b> B composed of 1-<b>butene-ethylene-propylene copolymer</b> shell and polypropylene core which generates 90/25 mm crimps by heating at 135.degree., opened to form webs, which were heated at 135.degree. for 1 min to give a 100 g/m2 thermally fused nonwoven fabric with good repeated elastic recovery, which showed breaking length 0.7 km and elongation at rupture 140%, vs. 1.1 and 50, resp., for a similar nonwoven fabric composed of 100% <b>composite fibers</b> A.</p>				

=> LOG Y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

39.86

40.70



DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.95	-1.95

STN INTERNATIONAL LOGOFF AT 13:44:54 ON 14 FEB 2003